Doc code: IDS Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-10)

Approved for use through 07/31/2012. OMB 0651-001

mation Disclosure Statement (IDS) Filed

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number	09684305	
	Filing Date	2000-10-06	
INFORMATION DISCLOSURE	First Named Inventor		
STATEMENT BY APPLICANT	Art Unit	1637	. /
(Not for submission under 37 CFR 1.99)	Examiner Name		
	Attorney Docket Number	FORS-04447	

	U.S.PATENTS							
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1	4511502		1985-04-16		Whole Document		
	2	4511503		1985-04-16		Whole Document		
	3	4512922		1985-04-23		Whole Document		
	4	4518526		1986-05-21		Whole Document		
	5	4683194		1987-07-28		Whole Document		
	6	4683195		1987-07-28	No documents considered on this IDS, see replacement IDS	Whole Document		
	7	4683/202		1987-07-28	filed 04/10/2012 and considered 04/16/2012 /M.S./	Whole Document		
	8	4775619		1988-10-04		Whole Document		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for summission under 37 CFR 1.99)

Application Number	09684305	
Filing Date	2000-10-06	
First Named Inventor		
Art Unit	1637	
Examiner Name	,	
Attorney Docket Number	FORS-04447	

9	4876187	1989-10-	24	Whole Document
10	5011769	1991-04-	30	Whole Document
11	5108892	1992-04-	28	Whole Document
12	5118605	1992-06-	*	Whole Document
13	5144019	1992-09-	01	Whole Document
14	5210015	1993-05		Whole Document
15	5380833	1995-06-	10	Whole Document
16	5403711	1995-04-	04	Whole Document
17	5422253	1995-06-	06	Whole Document
18	5427930	1995-06-	27	Whole Document
19	5487972	1996-01-	30	Whole Document

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	09684305	
Filing Date	2000-10-06	
First Named Inventor		
Art Unit	nit 1637	
Examiner Name		
Attorney Docket Number	FORS-04447	

20	5494810	1996-02-27		Whole Document
21	5541311	1996-07-30		Whole Document
22	5545729	1996-08-13		Whole Document
23	5698400	1997-12-16		Whole Document
24	5719056	1998-02-17	X	Whole Document
25	5783392	1998-07 1		Whole Document
26	5792614	1998-08-11		Whole Document
27	5830664	1998-11-03		Whole Document
28	5843654	1998-12-01		Whole Document
29	5843669	1998-12-01		Whole Document
30	5874283	1999-02-23		Whole Document

		Filing [Filing Date 2000-10-06								
•		ION DISCLOS		First N	amed I	nventor			- -	/	A CONTRACTOR OF THE PARTY OF TH
		IT BY APPLICA		Art Un	it		1	637			
(NOT TOP S	Summi	ssion under 37 CFR	1.99)	Exami	Examiner Name						
	*			Attorne	ey Docl	cet Number	F	ORS-04447			
				-1			•				
.70	31	5882867		1999-03	-16				Whole	e Document	
	32	5888780		1999-03	-30			/	Whole	e Document	
	33	5985557		1999-11	-16				Whole	e Document	
•	34	5994069		1999-11	J. H.	/			Whole	e Document	
1.0	35	6372424		2002-04	-16	X			Whole	e Document	
If you wisl	l h to ad	d additional U.S. Pate	ent citation	n informa	ation pl	ease click the	e Add	button.	I		
						CATION PUE					
Examiner Initial*	Cite N	Publication Number	Kind Code ¹	Publica Date	tion	Name of Pa of cited Doc		or Applicant	Relev	s,Columns,Lines where vant Passages or Relev es Appear	
	1										
If you wisl	h to ad	d additional U.S. Jub	lished Ap	plication	citation	n information	pleas	e click the Add	d bytto	on.	
				FOREIG	N PAT	ENT DOCU	MENT	S	**************************************		
Examiner Initial*	Cite No	Foreign Bocument Number3	Country Code ² i		Kind Code4	Publication Date	Ap	me of Patented plicant of cited cument		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	Te
	1	EP0411186	EP			1991-02-06				Whole Document	
											L

Application Number

09684305

Application Number 09684305 Filing Date 2000-10-06 INFORMATION DISCLOSURE First Named Inventor STATEMENT BY APPLICANT Art Unit 1637 (Not for summission under 37 CFR 1.99) **Examiner Name** Attorney Docket Number FORS-04447 2 EP0482714 ΕP 1991-10-22 nole Document If you wish to add additional Foreign Patent Document citation information please click the Add by ton **NON-PATENT LITERATURE DOCUMENTS** Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item Examiner Cite **T**5 (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), Initials* No publisher, city and/or country where published. US Patent Application No.: 08/337,164 Filed: 1994-11-03, Dahlberg 1 US Patent Application No.: 08/402,601, Filed: 1935-03-09, Fahlberg 2 Abramson, et al. "Characterization of the 5'-3' Exonucleas Activity of Thermus Aquaticus DNA Polymerase," FASEB J 3 5(4) 386 (1991) Akhmetzjanov, et al. "Molecular cloning and nucleotide sequence of the DNA polymerase gene from Thermus flavus," Nucl. Acids Res. 20:5839 (1992) Altamirano, et al., "Identification of Hepatitis C Virus Genotypes among Hospitalized Patients in British Columbia, 5 Canada," J. Infect. Dis. 17. 1034-1038 (1995). Anderson, et al. "Quantitative Filter Hybridization", in Nucleic Acid Hybridization, Eds Hames & Higgins, IRL Press, 6 Washington, DQ, pp. 73-111 (1985) Andrews, Electrophoresis, 2nd Edition, ed. Anthony T. Andrews, Clarendon Press, New York, New York (1986), pp. 153-3 Antao, et al. "A thermodynamic study of unusually stable RNA and DNA hairpins," Nucl. Acids Res. 19:5901-5905 8

(1991)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for summission under 37 CFR 1.99)

Application Number	09684305	
Filing Date	2000-10-06	
First Named Inventor		
Art Unit	1637	
Examiner Name		
Attorney Docket Number	FORS-04447	

	9	Bambara, et al., "Enzymes and Reactions at the Eukaryotic DNA Replication Fork," J. Biol. Chem/272:4647-4650 (1997)	
	10	Barany "The Ligase Chain Reaction in a PCR World," PCR Methods and Applic., 1:5-16 (1991)	
·	11	Barany, "Genetic disease detection and DNA amplification using cloned thermostable ligase," Proc. Natl. Acad. Sci., 88:189-193 (1991);	
	12	Bardwell, et al. "Specific Cleavage of Mode Recombination and Repair Intermediates by the Yeast Rad1-Rad10 DNA Endonuclease," Science 265:2082-2085 (1994)	
	13	Barnes, et al. "Mechanism of Tracking and Cleavage of Adduct-damaged DNA Substrates by the Mammalian 5'- to 3'Exonuclease/Endonuclease RAD2 Homologue 1 or Flap Endonuclease 1", J. Biol. Chem. 271:29624-29632 (1996)	
	14	Bergseid , et al. "A High Fidelity Thermostable DNA Polymerase Isolated from Pyrococcus Furiosus," Strategies 4:34-35 (1991)	
	15	Bhagwat, et al. "The 5'-Exonucler'se Activity of Bacteriophage T4 RNase N is Stimulated by the T4 Gene 32 Single-stranded DNA-binding Protein, but Its Flap Endonuclease Is Inhibited," J. Bid. Chem. 272:28523-28530 (1997);	
	16	Binghui, et al. "Flap engonuclease homologs in archaebacteria exist as independent proteins" TRENDS IN BIOCHEMICAL SCIENCES, ELSEVIER. HAYWARDS, GB, vol. 23, no. 5, '1 May 1998 1998-05-01)', pages 171-173	
	17	Bonch-Osmblovskaya, et al. Microbiology (Engl. Transl. of Mikrobiologiya) 57:78-85 (1988)	
	18	Borges, et al. "A Survey of the Genome of the Hyperthermophilic Archaeon, Pyrococcus furiosus" (Data Genbank on ALM, U.S. Nat. Lib. of Med.) Genome Science & Technology, 1996, Vol. 1, No. 2, pp. 37-46	
	19	Boynton, et al. "Cloning, sequencing, and expression of clustered genes encoding 13-hydroxybutyryl-coenzymeA (CoA) dehydrogenase, crotonase, and butyryl-CoA dehydrogenase from clostridium acetobutylicum ATCC 824" Journal of Bacteriology. June 1996, Vol. 178, No. 11, pages 3015-3024	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	09684305	
Filing Date	2000-10-06	
First Named Inventor		
Art Unit	1637	
Examiner Name		
Attorney Docket Number	FORS-04447	

	20	Brosius, et al. "Spacing of the -10 and -35 regions in the tac promoter: Effect on its in vivo activity" Journal of Biological Chemistry. 25 March 1985, Vol. 260, No.6, pages 3539-3541	
	21	Brow, et al. "Differentiation of Bacterial 16S rRNA Genes and Intergenic Regions and Mycobacterium tuberculosis katG Genes by Structure-Specific Endonuclease Cleavage," J. of Clin. Micro. 34:3129-3137 (1996)	
	22	Brutlag, et al., "An Active Fragment of DNA Polymerase Produced By Protectytic Cleavage," Biochem. Biophys. Res. Commun. 37:982-989 (1969)	
	23	Bult, et al. "Complete genome sequence of the methanogenic archaeon, Methanococcus jannaschii" Science 273:1058-1062 (1996)	
	24	Carballeira, et al. "Purification of a Thermostable DNA folymerase from Thermus thermophilus HB8, Useful in the Polymerase Chain Reaction," Biotechniques 9:276-281 (1990)	
	25	Carr, et al. "Evolutionary conservation of excision repair in Schlosaccaromyces pombe: evidence for a family of sequences related to the Saccharomyces cerevisiae RAD2 gene NUCLEIC ACIDS RESEARCH, vol. 21, no. 6, March 1993, p. 1345-9	
	26	Ceska, et al. "Structure-specific DNA cleavage by 5" nucleases," TIPS 23 (1998)	
	27	Ceska, et al., "A helical arch allowing single-stranded DNA to thread through T5 5'-expnuclease," Nature 382:90-93 (1996)	
	28	Chamberlin, et al. "Bacteriophage DNA-Dependent RNA Polymerases" The Enzymes, XV:87-108 (1982)	
	29	Copley, et al. "Exonuclease Cycling Assay: An Amplified Assay for the Detection of Specific DNA Sequences," sioTechniques 13:888-891 (1992)	
/	30	Cuthbert "Hepatitis C: Progress and Problems" Clin. Microbiol. Rev. 7:505-532 (1994)	
			M

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)

Application Number	09684305	
Filing Date	2000-10-06	
First Named Inventor		
Art Unit	1637	
Examiner Name		
Attorney Docket Number	FORS-04447	

31	DeMott, et al. "Human RAD2 Homolog 1 5'-3'-Exo/Endonuclease Can Efficiently Excise a Displaced DNA Fragment Containing a 3'-Terminal Abasic Lesion by Endonuclease Activity," J. Biol. Chem. 271:30068-30076 (1996)	
32	Donnabella, et al. "Isolation of the Gene for the β Subunit of RNA Polymerase from Rifampicin-resistant Mycobacterium tuberculosis and Identification of New Mutations," Am. J. Respir. Dis. 11:639-643 (1994)	
33	Doty, et al. "Strand Separation and Specific Recombination in Deoxyribonucleic Acids: Physical Chemical Studies," Proc. Natl. Acad. Sci. USA 46:461 176 (1960)	
34	Duck, et al. "Probe Amplifier System Based on Chimeric Cycling Oligonucleotides," BioTech., 9:142-147 (1990)	
38	Dunn, et al. "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," J. Mol. Biol. 166:477-535 (1983)	
36	Engelke "Purification of Thermus Aquaticus BNA Polymerase Expressed in Escherichia coli," Anal. Biochem 191:396-400 (1990)	
37	Eom, et al. "Structure of Taq polymerase with DNA at the polymerase active site," Nature 382:278-282 (1996)	
38	Erlich, et al. "Recent Advances in the Polymerase Chain Reaction" Science 252:1643-1651 (1991)	
39	Fahy, et al. "Belf-sustained Sequence Replication (3SR): An Isothermal Transcription-based Amplification System Alternative to PCR" PCR Meth. Appl., 1:25-33 (1991)	
40	Gariorth, et al. "Structure-specific DNA binding by bacteriophage T5 5'3' exonuclease," Nucleic Acids Res. 25:3801-3807 (1997)	
1	Gelfand, PCR Technology - Principles and Applications for DNA Amplification (H.A. Erlich, Ed.), Stockton Press, New York, p. 19 (1989)	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99) Application Number 09684305 Filing Date 2000-10-06 First Named Inventor Art Unit 1637 Examiner Name Attorney Docket Number FORS-04447

42	GHOSH et al. "Real time kinetics of restriction endonu transfer" 199 Nucleic Acids Research 22(15):3155-3	clease cleavage monitored by fluorescence resonance energy]
43	Guatelli, et al. "Isothermal, in vitro amplification of nuc replication," Proc. Natl. 1 (2ad. Sci., 87:1874-1878 (199	leic acids by a multienzyme reaction modeled after retroviral 0) with an erratum at Proc. Nat. Acad. Sci., 87:7797 (1990)]
44	Harrington, et al. "DNA Structural Elements Required	for FEN-1 Binding," J Biol. Chem. 270:4503-4508 (1995)]
45	Harrington, et al. "Functional domains within FEN-1 ar implications for nucleotide excision repair," Genes and	nd RAD2 define a family of structure-specific endonucleases:]
46	Harrington, et al., "The characterization of a mammal 13:1235-1246 (1994)	DNA sturcture-specific endonuclease," EMBO Journ.]
47	Hiraoka, et al. "Sequence of human FEN-1, structure gene (FEN1) in mouse and human," Genomics 25:220	e specific andonuclease, and chromosomal localization of the 0-225 (1995) No documents considered on this]
48	Hiraoka, et al. GenBank Acc#: Np_004102; 1999-05-0	IDS, see replacement IDS filed 04/10/2012 and considered]
49	Hirao, et al. "Most compact hairpin-turn structure exert extraordinarily stable structure resistant to nucleases a	ed by a short DNA fragment, d(GCGAAGC) in solution: an]
50	Holland, et al. "Detection of specific polymerase chain Thermus aquaticus DNA polymerase" Proc. Natl. Acad	reaction product by utilizing the 5'-3' exoluclease activity of 1. Sci. USA 88:7276-7280 (1991)	_
If you wish to a	add additional non-patent literature document citation	on information please click the Add button	
	EXAMINER S	SIGNATURE	
Examiner Sign	pature /Mark Staples/	Date Considered 04/16/2012	_
	Initial if reference considered, whether or not citatio in conformance and not considered. Include copy o	n is in conformance with MPEP 609. Draw line through a f this form with next communication to applicant.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	09684305			
Filing Date	2000-10-06			
First Named Inventor				
Art Unit	1637			
Examiner Name				
Attorney Docket Number	FORS-04447			

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.